

Claims:

1. (currently amended) A NO_x control, comprising:
a nickel compound comprising about 50 wt% to about 100 wt% nickel oxide based on total weight of the nickel compound; and
a NO_x adsorber,
wherein said nickel compound is a coating on said NO_x adsorber.
- 2 - 4. (canceled)
5. (currently amended) The NO_x control as in Claim 2 1, wherein said nickel compound comprises about 80 wt% to about 100 wt% nickel oxide based on total weight of the nickel compound.
- 6-7. (canceled)
8. (previously presented) The NO_x control as in Claim 1, wherein said nickel compound comprises both a coating on said NO_x adsorber and particulates dispersed with said NO_x adsorber.
9. (previously presented) The NO_x control as in Claim 1, wherein said nickel compound is disposed on a first support, and said NO_x adsorber is disposed on a second support.
10. (previously presented) The NO_x control as in Claim 9, wherein said nickel compound disposed upstream from said NO_x adsorber.
11. (Currently Amended) The NO_x control as in Claim 1, wherein said nickel compound is as a self-supported structure, and wherein said NO_x adsorber is disposed on a support, said support being independent from said structure.

12. (original) The NO_x control as in Claim 1, wherein said NO_x adsorber comprises a catalyst material and a support, said catalyst material selected from the group consisting of cesium, barium, lanthanum, silver, zirconium, and alloys, oxides, and combinations comprising at least one of the foregoing catalyst materials.

13-17. (canceled)

18. (previously presented) The NO_x control as in Claim 12, wherein said support comprises a zeolite.

19. (previously presented) The NO_x control as in Claim 18, wherein said support further comprises alumina.

20. (previously presented) A NO_x control, comprising:

a zeolite ion exchanged with a material selected from the group consisting of barium, cesium, lanthanum, silver, and combinations comprising at least one of the foregoing materials; and

a nickel compound coating on the zeolite, wherein said nickel compound comprises about 50 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.

21. (previously presented) The NO_x control as in Claim 20, wherein said nickel compound comprises about 80 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.

22. (previously presented) The NO_x control as in Claim 20, wherein said nickel compound is present in an amount of 15 wt% to 50 wt%, based upon the combined weight of said nickel compound and said zeolite.

23. (previously presented) The NO_x control as in Claim 20, further comprising alumina.

24. (previously presented) The NO_x control as in Claim 1, wherein said nickel compound is present in an amount of 15 wt% to 50 wt%, based upon the combined weight of said nickel compound and said NO_x adsorber.

25. (previously presented) The NO_x control as in Claim 1, wherein said NO_x adsorber further comprises a zeolite.

26. (previously presented) The NO_x control as in Claim 12, wherein said catalyst material selected from the group consisting of cesium, barium, and combinations comprising at least one of the foregoing catalyst materials.

27. (previously presented) The NO_x control as in Claim 1, wherein the nickel compound further comprises a material selected from the group consisting of silver oxide, chrome oxide, and combinations comprising at least one of the foregoing materials.

28. (canceled)